EM4431
8-Port 10/100Mbps Switch, 8 PoE ports

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Manual

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EM4431 - 8-Port 10/100Mbps Switch, 8 PoE ports

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1.0 Introduction

Congratulations with the purchase of this high-quality Eminent product! This product has undergone extensive testing by Eminent's technical experts. Should you experience any problems with this product, you are covered by a five-year Eminent warranty. Please keep this manual and the receipt in a safe place.

Register your product now on www.eminent-online.com and receive product updates!

1.1 Packing contents

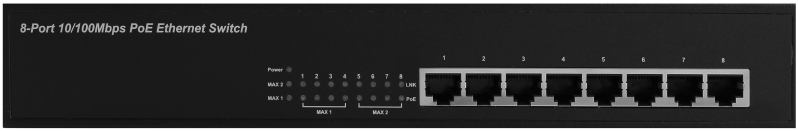
The following parts need to be present in the packing:

- EM4431 8-Port 10/100Mbps Switch, 8 PoE ports
- Manual
- Power cord
- 19" mounting bracket

2.0 Front and rear panel description

2.1 Front panel

Figure 1-1 shows the front panel of the switch.



Ports :
These ports are connection points for PCs and other network devices, such as additional switches.

2.1.1 LED Indicator description

You can see the switch's work status by LED indicators. The following table shows these indicators function:

LED	Status	Description
PWR	ON	Power is supplied
	OFF	No power
Link	ON	A valid link is established
	Blinking	Data packets received
	OFF	No link is established
PoE	ON	There is a PoE PD (Powered Device) connected to the port, which supply power successfully.
	OFF	No PD port connect to the port, or the power is not enough to supply PoE device to work
MAX 1(1-4 Ports)	ON	When the power output to PDs has reached or exceeded the maximum power. No additional PDs connected will be powered.
	OFF	When the system is using less than 55W or Higher than 70W
MAX 2(5-8 Ports)	ON	When the power output to PDs has reached or exceeded the maximum power. No additional PDs connected will be powered.
	OFF	When the system is using less than 55W or Higher than 70W

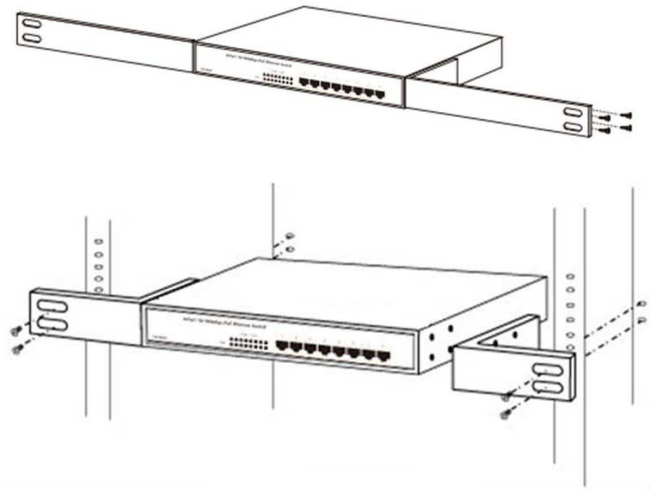
2.2 Rear panel

Figure 1-2 shows the rear panel of the switch.

Power :
The power port is where you need to connect the power cord.

3.0 Rack-mount Installation

The switch is rack-mountable and can be installed on a 19 inch equipment rack. To do this, first, please install the mounting brackets on the switch's side panels (one on each side), secure them with the included screws, and then use the screws provided with the equipment rack to mount the switch on the 19 inch rack.



4.0 Connect Powered Device to the Switch

All ports of the switch have PoE power supply function. The maximum output power of each port can reach up to 30W. The total maximum power is 140W; 70W for port 1~4 and 70W for ports 5~8. It can make PD devices, such as internet phone, network camera, and wireless access point work. The switch provides five levels of 3.84 ~ 25.5W electric power request. You only need to connect the switch PoE port directly to the PD port by network cable.

5.0 Switch Features and Specifications

Features:

- 8 × 10/100Mbps Auto-negotiation Fast Ethernet RJ45 ports with 8 ports of PoE function (port1-port8)
- Supports PoE power up to 30W for each PoE port
- Supports total PoE power up to 140W for all PoE ports
- Supports PoE IEEE802.3af and IEEE802.3at compliant Powered Device (PD)
- Supports IEEE802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode
- 1K entry MAC address table of the switch with auto-learning and auto-aging
- LED indicators for monitoring power, link, activity, POE
- Internal power supply

Specifications:

Standards		IIEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at
Network Media (Cable)		10BASE-T: UTP category 5 cable (maximum 100m) 100BASE-T: UTP category 5,5e cable (maximum 100m)
Number of Ports		8 x 10/100Mbps Auto-Negotiation ports
Switching Capacity		1G
LED indicators	10/100M	Link/Act
	POE	POE
	Other	Power
Transfer Method		Store-and-Forward
PoE Power on RJ-45		Power+: pin 1 & pin 2
		Power-: pin 3 & pin 6
MAC Address Learning		Automatically learning, automatically Update
Frame Filtering and Forward Rate		10Mbps: 14880pps,100Mbps: 148800pps
Dimensions (L × W × H)		280*179*44mm
Weight		1794gr
Environment		Operating Temperature: 0°C~40°C Storage Temperature: -10°C~70°C Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing

6.0 Frequently Asked Questions and other related information

The latest Frequently asked questions for your product can be found on the support page of your product. Eminent will update these pages frequently to assure you have the most recent information. Visit www.eminent-online.com for more information about your product.

7.0 Service and support

This users manual has been carefully written by Eminent's technical experts. If you have problems installing or using the product, please fill out the support form at the website www.eminent-online.com/support.

You can also contact us by phone. Please check www.eminent-online.com/support for the helpdesk phone number and opening hours.

8.0 Warning and points of attention

Due to laws, directives and regulations set out by the European parliament, some (wireless) devices could be subject to limitations concerning its use in certain European member states. In certain European member states the use of such devices could be prohibited. Contact your (local) government for more information about this limitations.

Always follow up the instructions in the manual*, especially where it concerns devices which need to be assembled.

Warning: In most cases this concerns an electronic device. Wrong/improper use may lead to (severe) injuries!

Repairing of the device should be done by qualified Eminent staff. The warranty immediately voids when products have undergone self repair and/or by misuse. For extended warranty conditions, please visit our website at www.eminent-online.com/warranty.

**Tip: Eminent manuals are written with great care. However, due to new technological developments it can happen that a printed manual does not longer contain the most recent information.*
If you are experiencing any problems with the printed manual or you cannot find what you are looking for, please always check our website www.eminent-online.com first for the newest updated manual.

Also, you will find frequently asked questions in the FAQ section. It is highly recommended to consult the FAQ section. Very often the answer to your questions will be found here.

9.0 Warranty conditions

The five-year Eminent warranty applies to all Eminent products, unless mentioned otherwise before or during the moment of purchase. After buying a second-hand Eminent product the remaining period of warranty is measured from the moment of purchase by the product's initial owner. Eminent warranty applies to all Eminent products and parts, indissolubly connected or mounted to the product it concerns. Power supply adapters, batteries, antennas and all other products not directly integrated in or connected to the main product or products of which, without reasonable doubt, can be assumed that wear and tear during use will show a different pattern than the main product, are not covered by the Eminent warranty. Products are not covered by the Eminent warranty when exposed to incorrect/improper use, external influences or when opening the service parts of the product by parties other than Eminent. Eminent may use refurbished materials for repair or replacement of your defective product. Eminent cannot be held responsible for changes in network settings by internet providers. We cannot guarantee that the Eminent networking product will keep working when settings are changed by the internet providers. Eminent cannot guarantee the working of web services, apps and other third party content that is available through Eminent products. Eminent products with an internal hard disk have a limited warranty period of two years on the hard disk. Eminent could not be held responsible for any data lost. Please make sure that if the product stores data on a hard drive or other memory source, you will make a copy before you return the product for repair.

When my product gets defective

Should you encounter a product rendered defective for reasons other than described above: Please contact your point of purchase for taking care of your defective product.

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Toepassing van Richtlijnen van de Raad| Application of Council Directives | Application des directives du comité | Aplicación de las directivas del Consejo | Aplicação das Diretivas do Conselho | Applicazione delle Direttive del Consiglio | Anwendung der EU-Richtlinien | Tanácsi irányelvek alkalmazása | Zastosowanie Dyrektyw Rady :	
Naam fabrikant | Manufacturer's Name | Nom du fabricant | Nombre del fabricante | Nome do fabricante| Nome produttore| Name des Herstellers Gyártó neve | Nazwa producenta:	Eminent
Type apparatuur | Type of Equipment | Type d'équipement | Tipo de equipo | Tipo de equipamento | Tipo di apparecchiatura | Gerätetyp | Készülék típusa | Typ urządzenia:	8-Port 10/100Mbps Switch, 8 PoE ports
Apparatuurklasse |Equipment Class | Classe de l'équipement | Clase de equipo | Classe do equipamento | Classe apparecchiatura | Geräteklasse | Készülék osztály | Klasa urządzenia:	Commercieel, licht industrieel, consumenten | Commercial, Light Industrial, Consumer | Commercial, industriel léger, consommateur | Comercial, Industria Ligera, Cliente | Comercial, Indústria Ligeira, Consumidor | Commerciale, Industria leggera, Consumer | Handels-, Leichtindustrie, Verbraucher |Kereskedelmi, könnyű ipari, fogyasztói | Komercyjne, przemysł lekki, konsumpcyjne
Productnummer | Product number | Numéro Produit | Número del Producto | Número do Produto | Numero Prodotto | Produktnummer | Termékszám | Numer Produktu:	EM4431
Voldoet aan de volgende standaarden | Conforms to the following standards | Conforme aux normes suivantes | Cumple las siguientes normativas | Em conformidade com as seguintes normas | Conforme ai seguenti standard | Stimmt mit folgenden Normen überein |Megfelel az alábbi szabványoknak | Zgodnoś z następującymi standardami:	EN 55022: 2010+AC:2011, EN 61000-3-2: 2006+A1: 2009+A2: 2009 EN 61000-3-3: 2008, EN 55024: 2010, IEC 61000-4-2: 2008 IEC 61000-4-3: 2010 IEC 61000-4-4: 2012 IEC 61000-4-5: 2005 IEC 61000-4-6: 2008 IEC 61000-4-8: 2009 IEC 61000-4-11: 2004
Gemaakt vanaf | Manufactured from | Fabriqué depuis | Fabricado a partir de | Fabricado a partir de | Prodotto dal | Fertigung ab | Gyártva | Wyprodukowano z:	10-7-2014
Ik, de ondergetekende, verklaar hierbij dat de apparatuur overeenkomt met de essentiële eisen en andere relevante eisen van de R&TTE Richtlijn (1999/5/EG) en de bovengenoemde normen | I, the undersigned, hereby declare that the equipment Conforms with the essential requirements and other relevant requirements of the R&TTE Directive (1999/5/EC) and to the above standards | Je, sous-signé, déclare par la présente que l'équipement est conforme aux exigences essentielles et aux autres exigences pertinentes de la directive R&TTE (1999/5/EC) et aux normes ci-dessus | Yo, el abajo firmante, por la presente declaro que este equipo cumple los requisitos esenciales y otros requisitos relevantes de la Directiva de Equipos Radioeléctricos y Equipos Terminales de Telecomunicaciones (1999/5/EC) y las normativas indicadas anteriormente | Eu, abaixo assinado, declaro que o equipamento está em conformidade com os requisitos essenciais e outras disposições relevantes da Diretiva ETRT (1999/5/CE) e com as normas acima referidas | Il sottoscritto dichiara che l'apparecchiatura è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti della Direttiva R&TTE (1999/5/CE) e agli standard di cui sopra | Ich, der Unterzeichner, erkläre hiermit, dass das Gerät mit den wesentlichen Anforderungen und weiteren diesbezüglichen Anforderungen der R&TTE-Richtlinie (1999/5/EG) sowie den obig genannten Normen übereinstimmt | Alulírott, ezúton tanúsítom, hogy a berendezés megfelel az R&TTE irányelv (1999/5/EK) lényeges követelményeinek és egyéb vonatkozó rendelkezéseinek, illetve a fenti szabványoknak | Ja, niżej podpisany, niniejszym deklaruję, że to urządzenie spełnia ważne wymagania oraz inne powiązane wymagania Dyrektywy R&TTE (1999/5/EC) i wspomnianych wyżej standardów.	
Plaats | Place| Lieu | Lugar | Local | Luogo | Ort | Hely | Miejsce:	Barneveld, The Netherlands
Datum | Date | Date | Fecha | Data | Data | Datum | Dátum | Data:	10-7-2014
Naam | Name | Nom | Nombre | Nome | Nome | Name | Név | Nazwa:	Marc Pannebakker
Handtekening | Signature | Signature | Firma | Assinatura | Firma | Unterschrift | Aláírás | Podpis:	